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OM protein - protein search, using sw model

Run on: June 25, 2003, 14:55:36 ; Search time 17.4806 Seconds

(without alignments)  
680.911 Million cell updates/sec

Title: US-09-622-613b-15

Perfect score: 602

Sequence: 1 UNMATTFOOKHINTPIICNT.....ICVCKENQYVPHAGIGRCP 110

Scoring table:

BLDSCUM62  
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA:  
1: /cgn2\_6/ptodata/1/pubppaa/US08\_NEW\_PUB.pep:\*  
2: /cgn2\_6/ptodata/1/pubppaa/PCT\_NEW\_PUB.pep:\*  
3: /cgn2\_6/ptodata/1/pubppaa/US06\_NEW\_PUB.pep:\*  
4: /cgn2\_6/ptodata/1/pubppaa/US07\_NEW\_PUB.pep:\*  
5: /cgn2\_6/ptodata/1/pubppaa/US07\_PUBCOMB.pep:\*  
6: /cgn2\_6/ptodata/1/pubppaa/US07\_PUBCOMB.pep:\*  
7: /cgn2\_6/ptodata/1/pubppaa/US07\_PUBCOMB.pep:\*  
8: /cgn2\_6/ptodata/1/pubppaa/US08\_PUBCOMB.pep:\*  
9: /cgn2\_6/ptodata/1/pubppaa/US09\_NEW\_PUB.pep:\*  
10: /cgn2\_6/ptodata/1/pubppaa/US09\_PUBCOMB.pep:\*  
11: /cgn2\_6/ptodata/1/pubppaa/US10\_NEW\_PUB.pep:\*  
12: /cgn2\_6/ptodata/1/pubppaa/US10\_PUBCOMB.pep:\*  
13: /cgn2\_6/ptodata/1/pubppaa/US60\_NEW\_PUB.pep:\*  
14: /cgn2\_6/ptodata/1/pubppaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	602	100.0	110	9	US-09-948-391A-15
2	597	99.2	110	9	US-09-948-391A-24
3	597	99.2	111	9	US-09-948-391A-26
4	596	99.0	111	9	US-09-948-391A-17
5	596	99.0	111	9	US-09-948-391A-21
6	596	99.0	111	9	US-09-948-391A-22
7	590	98.0	110	9	US-09-948-391A-19
8	281.5	46.8	105	9	US-09-948-391A-6
9	281.5	46.8	127	9	US-09-948-391A-28
10	280.5	46.6	104	9	US-09-948-391A-2
11	277.5	46.1	105	9	US-10-153-882-2
12	276.5	45.9	104	9	US-09-948-391A-11
13	276.5	45.9	105	9	US-09-948-391A-13
14	275.5	45.8	104	9	US-09-948-391A-14
15	272.5	44.3	104	9	US-09-986-119-1
16	266.5	44.3	105	9	US-09-948-391A-8
17	266.5	44.3	111	9	US-09-948-391A-9
18	206	37.1	83	9	US-09-986-119-3
19	163	27.2	169	12	US-10-016-447-2

20	117	19.4	147	10	US-09-731-872-254	Sequence 254, App
21	114.5	19.0	124	9	US-09-981-286A-8	Sequence 8, Appl1
22	114	18.9	124	12	US-10-016-447-5	Sequence 5, Appl1
23	113	18.8	131	12	US-10-016-447-6	Sequence 6, Appl1
24	113	18.8	147	10	US-09-286-240-6	Sequence 6, Appl1
25	113	18.8	147	10	US-09-863-777-2	Sequence 2, Appl1
26	92	15.3	161	9	US-10-001-876-197	Sequence 197, App
27	79	13.1	77	9	US-09-925-299-836	Sequence 836, App
28	79	13.1	77	10	US-09-925-299-836	Sequence 836, App
29	75	12.5	156	9	US-09-796-753-102	Sequence 102, App
30	75	12.5	156	9	US-09-796-753-118	Sequence 118, App
31	75	12.5	156	9	US-10-245-103-60	Sequence 60, Appl1
32	75	12.5	156	9	US-10-245-107-60	Sequence 60, Appl1
33	75	12.5	156	9	US-10-245-143-60	Sequence 60, Appl1
34	75	12.5	156	9	US-10-245-171-60	Sequence 60, Appl1
35	75	12.5	156	9	US-10-245-851-60	Sequence 60, Appl1
36	75	12.5	156	9	US-10-245-883-60	Sequence 60, Appl1
37	75	12.5	156	9	US-10-237-535-60	Sequence 60, Appl1
38	75	12.5	156	9	US-10-238-183-60	Sequence 60, Appl1
39	75	12.5	156	9	US-10-238-283-60	Sequence 60, Appl1
40	75	12.5	156	9	US-10-238-370-60	Sequence 60, Appl1
41	75	12.5	156	9	US-10-245-055-60	Sequence 60, Appl1
42	75	12.5	156	9	US-10-245-147-60	Sequence 60, Appl1
43	75	12.5	156	9	US-10-245-730-60	Sequence 60, Appl1
44	75	12.5	156	9	US-10-245-739-60	Sequence 60, Appl1
45	75	12.5	156	9	US-10-246-210-60	Sequence 60, Appl1

# ALIGNMENTS

RESULT 1  
US-09-948-391A-15  
Sequence 15, Application US/09948391A  
Publication No. US2003002311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
APPLICANT: Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 15  
LENGTH: 110  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana  
OTHER INFORMATION: catshelana oocyte ribonuclease (RACOR1) synthetic  
OTHER INFORMATION: gene modified to use E. coli preferred codons  
US-09-948-391A-15  
Query Match 100.0% Score 602; DB 9; Length 110;  
Best Local Similarity 100.0%; Pred. No. 8.4e-60;  
Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 UNMATTFOOKHINTPIICNTIMDNNTIYVGGCKRVNTFISSATYKATCTGVINNVL 60  
DB 1 UNMATTFOOKHINTPIICNTIMDNNTIYVGGCKRVNTFISSATYKATCTGVINNVL 60  
OY 61 STTRPOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHAGIGRCP 110  
|||||

Db 61 STRFQNLCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 110

RESULT 2

US-09-948-391A-24  
Sequence 24, Application US/09948391A  
Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
PRIOR FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: NO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 24  
LENGTH: 110  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana  
catesbeiana ribonuclease with Glu1Ser substitution  
OTHER INFORMATION: (recombinant RacORI Q1S)  
US-09-948-391A-24

Query Match  
Best Local Similarity 100.0%; Score 597; DB 9; Length 110;  
Matches 109; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 NMATFOOKHIINPIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGVINNVLS 61  
Db 2 NMATFOOKHIINPIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGVINNVLS 61

QY 62 TTRFQNLCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 110  
Db 62 TTRFQNLCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 110

RESULT 3

US-09-948-391A-26  
Sequence 26, Application US/09948391A  
Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
PRIOR FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: NO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 26  
LENGTH: 111  
TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana  
catesbeiana ribonuclease with Met at position 1  
OTHER INFORMATION: and Glu2Ser substitution (Met(-1) RacORI Q1S)  
US-09-948-391A-26

Query Match  
Best Local Similarity 99.2%; Score 597; DB 9; Length 111;  
Matches 109; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 NMATFOOKHIINPIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGVINNVLS 61  
Db 3 NMATFOOKHIINPIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGVINNVLS 62

QY 62 TTRFQNLCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 110  
Db 63 TTRFQNLCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 111

RESULT 4

US-09-948-391A-17  
Sequence 17, Application US/09948391A  
Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
PRIOR FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: NO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 17  
LENGTH: 111  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana  
catesbeiana ribonuclease with Met at position 1  
OTHER INFORMATION: (recombinant Met(-1) RacORI)  
US-09-948-391A-17

Query Match  
Best Local Similarity 99.0%; Score 596; DB 9; Length 111;  
Matches 109; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 NMATFOOKHIINPIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGVINNVLS 60  
Db 2 NMATFOOKHIINPIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGVINNVLS 61

QY 61 TTRFQNLCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 110  
Db 62 TTRFQNLCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 111

RESULT 5

US-09-948-391A-21  
Sequence 21, Application US/09948391A  
Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America

APPLICANT: as represented by the Secretary of the  
APPLICANT: Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor Rhase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO: 21  
LENGTH: 111  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana  
OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1,  
OTHER INFORMATION: Met231leu and Met581leu substitutions (recombinant  
OTHER INFORMATION: Met(-1) RacOR1 Met221leu Met571leu)  
US-09-948-391A-21

Query Match 99.0%; Score 596; DB 9; Length 111;  
Best Local Similarity 98.2%; Pred. No. 4e-59;  
Matches 108; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 QNMAFFQCKHIIIPICNTIMDNNIYVGGCKRVNFIISATTVKATCGVINNVL 60  
DB 2 QNMAFFQCKHIIIPICNTIMDNNIYVGGCKRVNFIISATTVKATCGVINNVL 61  
OY 61 STTRQQLNCTRTSTPRPCYSSRTETNYICVGCENQYPVHFGIGRCP 110  
DB 62 STTRQQLNCTRTSTPRPCYSSRTETNYICVGCENQYPVHFGIGRCP 111

RESULT 6  
US-09-948-391A-22  
Sequence 22, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
TITLE OF INVENTION: Recombinant Anti-Tumor Rhase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO: 22  
LENGTH: 117  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana  
OTHER INFORMATION: catesbeiana ribonuclease with (His)6 tag, Met at  
OTHER INFORMATION: position 7, Met231leu and Met581leu substitutions  
OTHER INFORMATION: (recombinant Met(-1) RacOR1 Met221leu Met571leu (His)6)  
US-09-948-391A-22

Query Match 99.0%; Score 596; DB 9; Length 117;  
Best Local Similarity 98.2%; Pred. No. 4.2e-59;

Matches 108; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
OY 1 QNMAFFQCKHIIIPICNTIMDNNIYVGGCKRVNFIISATTVKATCGVINNVL 60  
DB 8 QNMAFFQCKHIIIPICNTIMDNNIYVGGCKRVNFIISATTVKATCGVINNVL 67  
OY 61 STTRQQLNCTRTSTPRPCYSSRTETNYICVGCENQYPVHFGIGRCP 110  
DB 62 STTRQQLNCTRTSTPRPCYSSRTETNYICVGCENQYPVHFGIGRCP 117

RESULT 7  
US-09-948-391A-19  
Sequence 19, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
TITLE OF INVENTION: Recombinant Anti-Tumor Rhase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO: 19  
LENGTH: 110  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana  
OTHER INFORMATION: catesbeiana ribonuclease with Met221leu and  
OTHER INFORMATION: Met571leu substitutions (recombinant RacOR1  
OTHER INFORMATION: Met221leu Met571leu)  
US-09-948-391A-19

Query Match 98.0%; Score 590; DB 9; Length 110;  
Best Local Similarity 97.3%; Pred. No. 1.8e-58;  
Matches 107; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 QNMAFFQCKHIIIPICNTIMDNNIYVGGCKRVNFIISATTVKATCGVINNVL 60  
DB 1 QNMAFFQCKHIIIPICNTIMDNNIYVGGCKRVNFIISATTVKATCGVINNVL 60  
OY 61 STTRQQLNCTRTSTPRPCYSSRTETNYICVGCENQYPVHFGIGRCP 110  
DB 61 STTRQQLNCTRTSTPRPCYSSRTETNYICVGCENQYPVHFGIGRCP 110

RESULT 8  
US-09-948-391A-6  
Sequence 6, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
TITLE OF INVENTION: Recombinant Anti-Tumor Rhase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 6  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant)  
OTHER INFORMATION: Met(-1) RapRL1)  
US-09-948-391A-6

Query Match 46.8%; Score 281.5; DB 9; Length 105;  
Best Local Similarity 49.5%; Pred. No. 4.5e-24;  
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Qy 1 ONMATEFOOKHIINT-PIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGYI-MNM 58  
Db 2 ODMLTFQKHLNTRDVCNNIMSTNLF---HCKDKNTFIYSRPEPVKAICKGIASKN 57  
Qy 59 VLTSTRFQNLNCTRTSITRPPCPYSSRTETNYICVGCENQYPVHFAGIGRC 109  
Db 58 VLTSEFYLSDC---NVTSRPCKYKLRKSTNTEFCVTGCENQAPVHFVGVGHC 105

RESULT 9  
US-09-948-391A-28  
Sequence 28, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
TITLE OF INVENTION: Department of Health and Human Services  
FILE REFERENCE: 015280-34311005  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 28  
LENGTH: 127  
TYPE: PRT  
ORGANISM: Rana pipiens  
FEATURE:  
OTHER INFORMATION: Rana pipiens ribonuclease (RapRL1) Clone Salb cDNA  
OTHER INFORMATION: Insert  
US-09-948-391A-28

Query Match 46.8%; Score 281.5; DB 9; Length 127;  
Best Local Similarity 49.5%; Pred. No. 5.6e-24;  
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Qy 1 ONMATEFOOKHIINT-PIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGYI-MNM 58  
Db 24 ODMLTFQKHLNTRDVCNNIMSTNLF---HCKDKNTFIYSRPEPVKAICKGIASKN 79  
Qy 59 VLTSTRFQNLNCTRTSITRPPCPYSSRTETNYICVGCENQYPVHFAGIGRC 109  
Db 80 VLTSEFYLSDC---NVTSRPCKYKLRKSTNTEFCVTGCENQAPVHFVGVGHC 127

RESULT 10  
US-09-948-391A-2

Sequence 2, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
TITLE OF INVENTION: Department of Health and Human Services  
FILE REFERENCE: 015280-34311005  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 104  
TYPE: PRT  
ORGANISM: Rana pipiens  
FEATURE:  
OTHER INFORMATION: ribonuclease (RapRL1)  
US-09-948-391A-2

Query Match 46.6%; Score 280.5; DB 9; Length 104;  
Best Local Similarity 49.5%; Pred. No. 5.7e-24;  
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Qy 1 ONMATEFOOKHIINT-PIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGYI-MNM 58  
Db 1 ODMLTFQKHLNTRDVCNNIMSTNLF---HCKDKNTFIYSRPEPVKAICKGIASKN 56  
Qy 59 VLTSTRFQNLNCTRTSITRPPCPYSSRTETNYICVGCENQYPVHFAGIGRC 109  
Db 57 VLTSEFYLSDC---NVTSRPCKYKLRKSTNTEFCVTGCENQAPVHFVGVGHC 104

RESULT 11  
US-10-153-882-2  
Sequence 82, Application US/10153882  
Publication No. US2003009629A1  
GENERAL INFORMATION:  
APPLICANT: GOLDBERG, David M.  
APPLICANT: HANSEN, Hans  
APPLICANT: LEUNG, Shui-on  
TITLE OF INVENTION: RECOMBINANT ONCOMASE, AND CHEMICAL CONTIGUATES AND  
FILE REFERENCE: 018733/0913  
CURRENT APPLICATION NUMBER: US/10/153,882  
CURRENT FILING DATE: 2002-05-24  
PRIOR APPLICATION NUMBER: US/09/265,901  
PRIOR FILING DATE: 1999-03-11  
PRIOR APPLICATION NUMBER: US 60/077,557  
PRIOR FILING DATE: 1998-03-11  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Rana pipiens  
US-10-153-882-2

Query Match 46.1%; Score 277.5; DB 9; Length 105;  
Best Local Similarity 49.5%; Pred. No. 1.2e-23;  
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Qy 1 ONMATEFOOKHIINT-PIICNTIMDNNIYIVGGCKRVNTFISSATYKAICTGYI-MNM 58

Db 2 ODMITFOKKHITNTRDVDCDNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKN 57  
OY 59 VLSITRFOJNCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109  
Db 58 VLTISEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 105

## RESULT 12

US-09-948-391A-11  
Sequence 11, Application US/09948391A  
Publication No. US20030027311A1

GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US

CURRENT FILING DATE: 2002-05-10  
CURRENT APPLICATION NUMBER: US/09/948,391A

PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 11

LENGTH: 104  
TYPE: PRT

ORGANISM: Artificial Sequence  
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
OTHER INFORMATION: ribonuclease with Gln1ser substitution

OTHER INFORMATION: (recombinant RapL1 Q1S)  
US-09-948-391A-11

Query Match 45.9%: Score 276.5; DB 9; Length 104;  
Best Local Similarity 49.1%: Pred. No. 1.6e-23;

Matches 54: Conservative 15; Mismatches 32; Indels 9; Gaps 4;

OY 2 NMATFOOKHIINT-PIICNTIMDNNTIYVGGCKRVNFTIISATTVKAITGVI-MNNV 59  
Db 2 DMLTFQKKHLNTRDVDCNNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKNV 57

OY 60 LSTTRFOJNCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109  
Db 58 LTTSEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 104

RESULT 13  
US-09-948-391A-13  
Sequence 13, Application US/09948391A  
Publication No. US20030027311A1

GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US

CURRENT FILING DATE: 2002-05-10  
CURRENT APPLICATION NUMBER: US/09/948,391A

PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17  
US-09-948-391A-13

Query Match 45.8%: Score 275.5; DB 9; Length 104;  
Best Local Similarity 48.6%: Pred. No. 2.1e-23;

Matches 54: Conservative 15; Mismatches 33; Indels 9; Gaps 4;

OY 1 NMATFOOKHIINT-PIICNTIMDNNTIYVGGCKRVNFTIISATTVKAITGVI-MNNV 58  
Db 1 ODMITFOKKHITNTRDVDCNNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKN 56

OY 59 VLSITRFOJNCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109  
Db 57 VLTISEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 104

NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 13  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Artificial Sequence  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US

CURRENT FILING DATE: 2002-05-10  
CURRENT APPLICATION NUMBER: US/09/948,391A

PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 104  
TYPE: PRT

ORGANISM: Artificial Sequence  
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
OTHER INFORMATION: ribonuclease with Met231Ieu substitution

OTHER INFORMATION: (recombinant RapL1 Met231Ieu)  
US-09-948-391A-4

Query Match 45.9%: Score 276.5; DB 9; Length 105;  
Best Local Similarity 49.1%: Pred. No. 1.6e-23;

Matches 54: Conservative 15; Mismatches 32; Indels 9; Gaps 4;

OY 2 NMATFOOKHIINT-PIICNTIMDNNTIYVGGCKRVNFTIISATTVKAITGVI-MNNV 59  
Db 3 DMLTFQKKHLNTRDVDCNNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKNV 58

OY 60 LSTTRFOJNCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109  
Db 59 LTTSEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 105

RESULT 14  
US-09-948-391A-4  
Sequence 4, Application US/09948391A  
Publication No. US20030027311A1

GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US

CURRENT FILING DATE: 2002-05-10  
CURRENT APPLICATION NUMBER: US/09/948,391A

PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 104  
TYPE: PRT

ORGANISM: Artificial Sequence  
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
OTHER INFORMATION: ribonuclease with Met231Ieu substitution

OTHER INFORMATION: (recombinant RapL1 Met231Ieu)  
US-09-948-391A-4

Query Match 45.8%: Score 275.5; DB 9; Length 104;  
Best Local Similarity 48.6%: Pred. No. 2.1e-23;

Matches 54: Conservative 15; Mismatches 33; Indels 9; Gaps 4;

OY 1 NMATFOOKHIINT-PIICNTIMDNNTIYVGGCKRVNFTIISATTVKAITGVI-MNNV 58  
Db 1 ODMITFOKKHITNTRDVDCNNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKN 56

OY 59 VLSITRFOJNCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109  
Db 57 VLTISEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 104

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1 Publication NO. US20020187153A1
2 GENERAL INFORMATION:
3 APPLICANT: Rybak, Susanna M.
4 Newton, Dianne L.
5 Goldenberg, David M.
6 TITLE OF INVENTION: Immunotoxins Directed Against Malignant
7 Cells
8 NUMBER OF SEQUENCES: 3
9 CORRESPONDENCE ADDRESS:
10 ADDRESSEE: Townsend and Townsend and Crew LLP
11 STREET: Two Embarcadero Center, Eighth Floor
12 CITY: San Francisco
13 STATE: California
14 COUNTRY: USA
15 ZIP: 94111-3834
16 COMPUTER READABLE FORM:
17 MEDIUM TYPE: Floppy disk
18 COMPUTER: IBM PC compatible
19 OPERATING SYSTEM: PC-DOS/MS-DOS
20 SOFTWARE: PatentIn Release #1.0, Version #1.30
21 CURRENT APPLICATION DATA:
22 APPLICATION NUMBER: US/09/986,119
23 FILING DATE: 07-NO. US20020187153A1-2001
24 CLASSIFICATION: <Unknown>
25 PRIOR APPLICATION DATA:
26 APPLICATION NUMBER: US/09/071,672
27 FILING DATE: 01-MAY-1998
28 APPLICATION NUMBER: US 60/046,895
29 FILING DATE: 02-MAY-1997
30 ATTORNEY/AGENT INFORMATION:
31 NAME: Weber, Ellen Lauver
32 REGISTRATION NUMBER: 32,762
33 REFERENCE/DOCKET NUMBER: 015280-32510US
34 TELECOMMUNICATION INFORMATION:
35 TELEPHONE: (415) 576-0200
36 TELEFAX: (415) 576-0300
37 INFORMATION FOR SEQ ID NO: 1:
38 SEQUENCE CHARACTERISTICS:
39 LENGTH: 104 amino acids
40 TYPE: amino acid
41 STRANDEDNESS: <Unknown>
42 TOPOLOGY: linear
43 MOLECULE TYPE: protein
44 FEATURE:
45 NAME/KEY: Modified-site
46 LOCATION: 1
47 OTHER INFORMATION: /product= "OTHER"
48 /note= "Xaa = Glu or pyroglutamic acid"
49 FEATURE:
50 NAME/KEY: Protein
51 LOCATION: 1..104
52 OTHER INFORMATION: /note= "RNase A derived from
53 Rana pipiens, "one protein""
54 SEQUENCE DESCRIPTION: SEQ ID NO: 1:
55 US-09-986-119-1
56
57 Query Match 45.3%, Score 272.5; DB 9; Length 104;
58 Best Local Similarity 49.1%; Pred. No. 4.4e-23;
59 Matches 54; Conservative 15; Mismatches 32; Indels 9; Gaps 4;
60
61 2 NMATFOOKHIINT-PIICNTIMDNINIVYGQCKRVNTFIISATTVKICTGVI-NMNV 59
62 :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
63 2 DMLTFORKHITNTFDVDCDINIMSNLF---HCKDKNTFIYSRPEPVKAIKGIASNV 57
64 :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
65 60 LSTRFPLNTRTSITPRCPYSSRTETNYICVCEQGVVYHVRGIGRC 109
66 :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
67 58 LITSEFLSD---NVTSRPCKYVLKSTNFCVCEQGVVYHVRGIGRC 104
68 :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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